CALIFORNIA DEPARTMENT OF FISH AND GAME

Take Report for Anadromous Fish Research and Monitoring Activities Authorized Under the Endangered Species Act Section 4(d) Rule Research Limit for the period January 1, 2007 to December 31, 2007

Note: All items marked with an askterisk (*) are REQUIRED

1 *	Project Number: Project Title:							
	82 2007 Feather River Hatchery Spring-run Chinook Fish Ladder Investigations							
				-				
2 *	Principal Investig	ator (PI) or Contact Person:	Co-PI or Second	Co-PI or Second Contact Person:				
_	Last Name	Kindopp	Last Name	Kastner				
	First Name	Jason	First Name	Anna				
	Middle Initial	Jason	Middle Initial	Allila				
		CA Department of Water Decourses		Department of Fish and Come				
	Affiliation	CA Department of Water Resources		Department of Fish and Game				
	Address	460 Glen Drive	Address	5 Table Mountain Blvd.				
	City	Oroville	City	Oroville				
	State	California	State	California				
	Zip code (9-digit)	95966-9235	Zip code (9-digit)	95966-9235				
	Phone	(530) 534-2381	Phone	(530) 538-2222				
	Fax	(530) 534-2505	Fax					
	e-mail	jkindopp@water.ca.gov	e-mail	akastner@dfg.ca.gov				
			-					
3 *	Research timefrai	me: Note: for 4(d) authorization, the	start date and end date must be wit	hin the same calendar year.				
	Start Da	te: Approx. month, da 2007	End Date:	Approx. month, day 2007				
		· pp		<u></u>				
/ *	Dioaso placo an "	X" in the box next to EACH stateme	ont in this soction that appli	ns to your project				
-	· · · · · · · · · · · · · · · · · · ·			es to your project.				
	X	This research or monitoring project is						
		The project was not implemented of						
		A Section 10 Permit was obtained f						
		Please enter your project's Section						
		Use this form to report your project'	s take activity under this 4(c	l) authorization only				
5 *	Time of year and	frequency of sampling: (e.g., Jan	uary through June; 3 days per week	()				
•		2007; 2 days a week	aary arroagir carre, o aaye per mee.	.,				
	April tillough Julic	2007, 2 days a week						
6 *	Indicate river bas	in(s) sampled, and approximate lat	itude and longitude of samp	ling sites:				
	Specify Level 4 USGS	Hydrologic Unit Codes (HUCs) if known; also	o see attachment named "Listed ES	Us/DPSs, By Location" for general areas.				
	Feather River Basi	n; Feather River Hatchery: 39.3.118N	l. 121.32.42W.					
		, , , , ,						
- *	Duinfly donouiles ti			lan andividian.				
7 *		he techniques and methods used d						
		center the Feather River Fish Hatche						
	building and lightly anesthetized following standard hatchery protocol. Each fish is marked with a sequentially numbered							
	he river via the river return channel.							
	The river re-entry point is monitored twice daily to ensure all released fish recover as expected.							

8 * Actual Take Numbers:

Take is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." This does not include snorkel surveys or other strictly observational surveys, but does include dead fish that are handled, sampled, or retained/1

not include	SHORE SUIVEYS OF OUR		oci valionai	Servational surveys, but does include dead fish			Juvenile			
		Jr ses	۵	Le	thal	t onal /4	Nonlethal	Le	thal	t onal /4
Species	ESU/DPS	Adult Carcasses	Honlettal	Intentional /2	Unintentional /3	Percent Unintentiona Mortality /4		Intentional /2	Unintentional /3	Percent Unintentional Mortality /4
coho salmon	Southern Oregon/Northern	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
Chinook	Central Valley spring- run	0	9688	0	67	0.7	0	0	0	#DIV/0!
salmon	California Coastal	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Northern California	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
steelhead	Central California Coast	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
Steemeau	South-Central California Coast	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	California Central Valley	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!
green sturgeon	Southern DPS		0		0		0		0	

- 1. Example: carcasses handled/marked/sampled during carcass surveys.
- 2. Example: killing steelhead to obtain otoliths or other tissue.
- 3. Fish that are killed unintentionally during monitoring or research activity. Example: fish inadvertently killed as a result of electrofishing.
- 4. Number of lethal unintentional take divided by (nonlethal take + lethal unintentional take) x 100; calculated automatically.
- 5. Estimate the number of Southern DPS green sturgeon that were encountered during salmonid research projects ONLY. Although no 4(d) Rule has been established for the direct take of Southern DPS green sturgeon, this information is needed to assess the effects associated with salmonid research upon this fish.
- 9 * Please provide a summary of major findings (preliminary findings are sufficient if project is still ongoing).
 Please also indicate whether the data you have collected will be archived, and if so, the location of the archive.

Between May 3 and July 9, 2007, 9,756 "Spring-run" Chinook salmon were marked with individually numbered Hallprint dart tags for identification purposes at the Feather River Fish Hatchery. There were a total of 67 mortalities during the marking period. During the marking period, 1,527 Spring-run were recaptured in the FRH and re-released back to the Feather River. When spawning commenced in the fall, a total of 2,873 fish were recaptured: 1,849 at the FRH, 773 in the river escapement survey and 251 by anglers or recreators. The FRH successfully spawned 1,403 (76%) Spring-run that returned to the hatchery. Forty-eight (71%) of the 99 female salmon recovered in the river escapement survey were classified as spent and are thus assumed to have spawned successfully (20 were unspent, 28 had unknown spawning status so n= 68 for spawning status determination). All Spring-run were spawned (in the FRH) between 9/24 and 10/4 with the majority (85%) spawned by 9/28. The majority of fish recaptured in the river were found in the upper reaches of the low flow channel. Sixty-three percent were found within one mile of the hatchery and only one percent were found in the High Flow Channel. Based on the escape

if your project was COMPLETED: please attach a copy of a final, comprehensive report, if available, or indicate
below when you anticipate the final report will be completed.

11 * Describe what measures were utilized to minimize adverse effects upon listed salmon and steelhead, and the effectiveness of those measures.

ish are marked underwater, lightly anesthetized prior to any handling and returned to the river immediately after rocessing.	

that occurred during the project. None observed Describe post-handling mortality occurrences (if any) for salmon and steelhead, and indicate how post-handling mortality was estimated. Following each tagging session, we visually inspect the area around the river return channel for pos-mark mortality. A proportion of marked fish return to the hatchery before marking is completed. These fish are assessed for tagging effects (see above section #8.). Post handling mortality is less than 1%. Live fish counts from observational surveys: Please report the number of live fish observed from snorkel surveys, spawning surveys, or other strictly observational surveys in this section, and indicate survey methods). Species SUDPS Adult Juvenite Method(s) Coho salmon California Coasta Chinook salmon California Coasta Central California Coasta South-Central California Coasta South-Central California Coast South-Central Californ	12 *	Describe any prol	blems and/or unforeseen effects (e.g	յ., fish inj	uries or n	nortalities) on salmon and steelhead		
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HELP COLUMN

For clarification or additional help, please contact Sharon Shiba at (916) 324-3613; sshiba@dfg.ca.gov or Jeffrey Jahn at (707) 575-6097; Jeffrey.Jahn@NOAA.GOV.

Please refer to the attached file called **4dProgram2007ProjectsList.pdf** for your 2007 project number and title.

Your contact information is needed in case we should have questions regarding your report. Unless you are the sole researcher on the project, a second contact would be helpful in case we cannot reach you.

If you received your Section 10 Permit before your 2007 sampling season began, AND the permit completely replaces your project's 4(d) Authorization, your project is considered NOT IMPLEMENTED under the 4(d) Program. If your Section 10 Permit was received during mid-season, your project was partially covered under the 4(d) Program, thus take activity during this period must be reported here.

Please contact Sharon Shiba at (916) 324-3613 or sshiba@dfg.ca.gov if you would like to receive pdf files of HUC/DPS/ESU distribution maps. If there are multiple study sites, you may provide this information by attaching a Word or Excel file.

■ Caveat: This cell will accept a maximum of 32,767 characters; only the first 1,024 characters are visible in this cell and the rest are viewable only from the title bar. If this space is insufficient, additional space is provided in Item 15, or you may submit your response as a MS Word document. The file(s) may either be directly linked as OLEs or included as attachments to the e-mail accompanying your completed application. If you opt for the latter method, please indicate the filename(s) in the cell in lieu of your response. Please click the worksheet tab "AttachOLEFIlesHere" to see instructions re: creating OLE files.

Please indicate numbers of individuals actually taken during Calendar Year 2007, by table categories. The Calendar Year period was selected by NMFS; please do not attempt to report take for any other time period.
If your Section 10 Permit was received during mid- season AND the permit completely replaces your 4(d) coverage, please report only the take that occurred while your project was covered under the 4(d) Program.
Please see Caveat in Item 7 about cell capacity and alternative ways to provide the requested information.
Please see Caveat in Item 7 re: linking OLE files or e-mailing files as an attachment.

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You may use this space to continue responses to previous questions, or to provide additional information or comments. Please indicate the Item number if you use this space to supplement lengthy response(s).	n